Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8	demmer jeroen	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/13 10:42
L2	174	FESTUCA ARUNDINACEA	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/13 10:42
L3	5	l2 and (antifreeze OR anti-freeze)	US-PGPUB; USPAT; EPO; JPO; DERWENT	NEAR	ON	2005/05/13 10:42
L4	7	(US-20040126843-$ or US-20040146884-$ or US-20030237108-$ or US-20030180751-$). did. or (WO-2004022755-$ or WO-3093464-$ or WO-3040306-$).did.	US-PGPUB; EPO	OR	ON	2005/05/13 10:43

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=> d his

     (FILE 'HOME' ENTERED AT 10:51:06 ON 13 MAY 2005)

     FILE 'MEDLINE, CANCERLIT, AGRICOLA, CAPLUS, SCISEARCH' ENTERED AT
     10:51:25 ON 13 MAY 2005
L1          5002 S FESTUCA ARUNDINACEA
L2          6784 S ANTI-FREEZE OR ANTIFREEZE
L3             2 S L1 AND L2
L4             2 DUP REM L3 (0 DUPLICATES REMOVED)
               E DEMMER JER?/AU
L5            11 S E5
L6             0 S L5 AND L1
L7             0 S L5 AND L2
L8             3 S E4
L9             1 S L8 AND L2
L10            2 S L9 OR L4

=> d an ti so au ab pi l10 1-2

L10  ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2004:220424  CAPLUS
DN   140:249010
TI   Antifreeze proteins isolated from forage grasses and their use
     in modulating cold tolerance in transgenic organisms and for reduced
     drying times
SO   PCT Int. Appl., 71 pp.
     CODEN: PIXXD2
IN   Demmer, Jeroen; Shenk, Michael Andrew; Hall, Claire; Fish,
     Steven A.
AB   The present invention provides 13 antifreeze proteins that are
     encoded by polynucleotides isolated from forage grass tissues.  The cDNAs
     were isolated from perennial ryegrass (Lolium perenne) and tall fescue (
     Festuca arundinacea) tissues taken at different times of
     the year, specifically in winter and spring, and from different parts of
     the plants, including leaf blades, leaf base, pseudostems, roots, and
     stems.  The invention also provides genetic constructs, expression vectors
     and host cells comprising the polynucleotides, and methods for using the
     polynucleotides and genetic constructs to modulate the cold tolerance of
     organisms, such as plants.  Transformation of Arabidopsis plants with
     grass antifreeze protein genes increased the freezing tolerance
     of antifreeze protein-expressing plants.  The antifreeze
     proteins also change ice crystal size and reduce drying time of liqs. in a
     SpeedVac vacuum concentrator.
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     --------------      ----   --------    -------------------    --------
PI   WO 2004022700        A2    20040318    WO 2003-NZ199          20030909
     WO 2004022700        A3    20040506
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     US 2004146884        A1    20040729    US 2003-657852         20030909
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- To combine searches use # before search number, e.g., #2 AND #6.
- Search numbers may not be continuous; all searches are represented.
- Click on query # to add to strategy

Search	Most Recent Queries	Time	Result
#9	Search **(antifreeze proteins) AND (#1)**	10:48:59	0
#8	Search **antifreeze proteins**	10:48:35	456
#7	Search **antifreeze proteins** Field: **Author**	10:48:27	0
#5	Search **demmer J** Field: **Author**	10:47:51	19
#6	Search **(#1) AND (#5)** Field: **Author**	10:47:45	0
#4	Search **(#1) AND anti-freeze**	10:46:59	0
#3	Search **(#1) AND (#2)**	10:46:42	0
#2	Search **anti-freeze OR antifreeze**	10:46:23	695
#1	Search **FESTUCA arundinacea**	10:45:52	168

Clear History